Standalone Type
DVR
System

USER'S MANUAL

4/8/16Ch

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1. Specification & Organization

1. Product contents List

Please Confirm the Contents When open Package.

① Basic Contents

Power Cable

User's Manual

Remote Controller

Remote Client
Program Install CD

AAA Battery X 2

② Option Contents

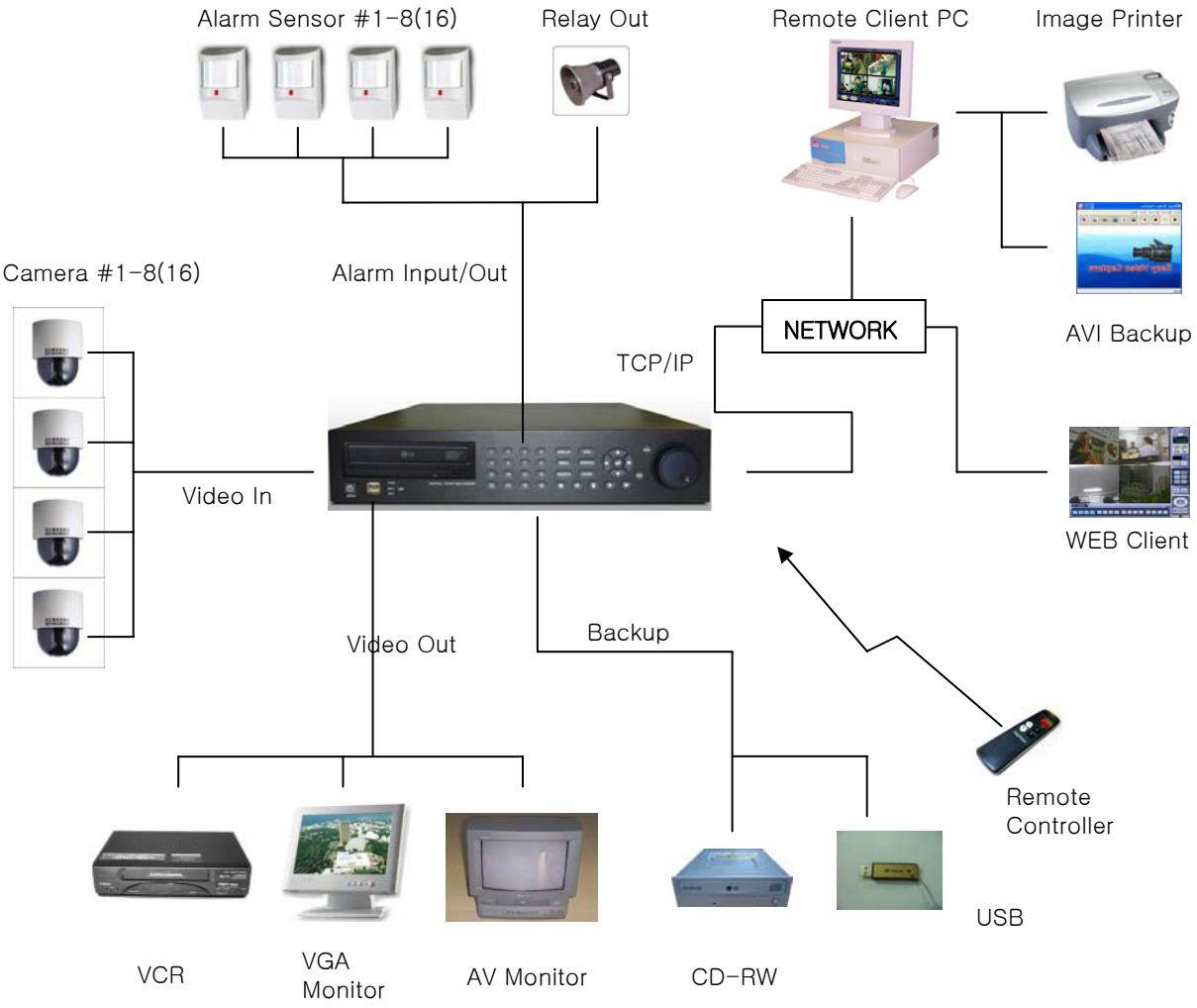
HDD

CD-RW

USB Memory

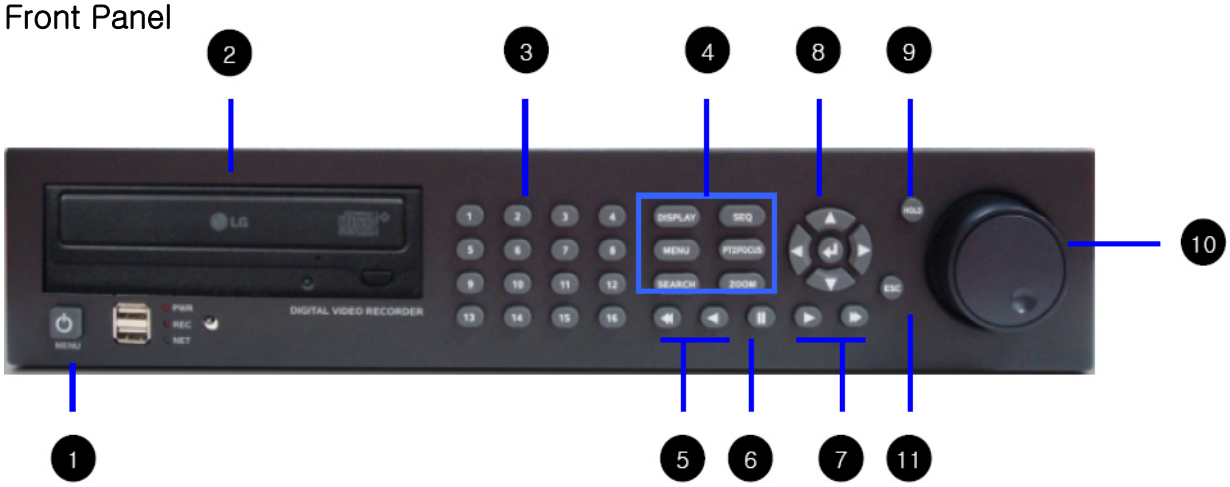
1. Specification & Organization

2. System Organization



2. Description (8ch / 16ch)

1. Front Panel



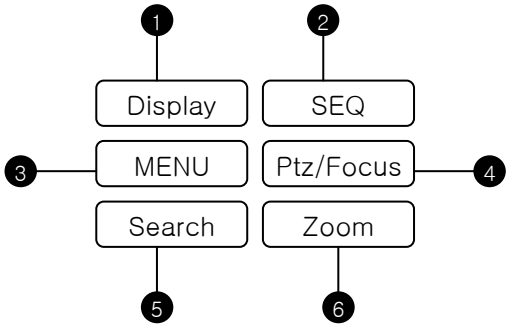
1. **POWER** : System Power On/Off
2. **CD/DVD RW** : Back up image to CD/DVD RW
3. **Channel Select button** : Select to Channel or input Password
4. **Function Button** : Function button as Shortcut button for convenience
5. **Focus** : Setup focus / Play back, Fast backward
6. **Pause** : Pause Playing
7. **IRIS** : Setup Iris / Playing, Fast forward
8. **Direction Control button** : Control direction. Enter, Control menu and searching recording
9. **HOLD** : Hold jog dial
10. **Jog dial**
11. **ESC** : Cancel Setup or Return Previous Mode.

Tip

- Channel Selection Button is Prior to DISPLAY.
- When Remote Controller Sensor Input is Blocked by Something, it Cause Remote Controller do NOT Work Properly.
- When Press any Button, it Operate with Beep Sound.

2. Description

* Shortcut button



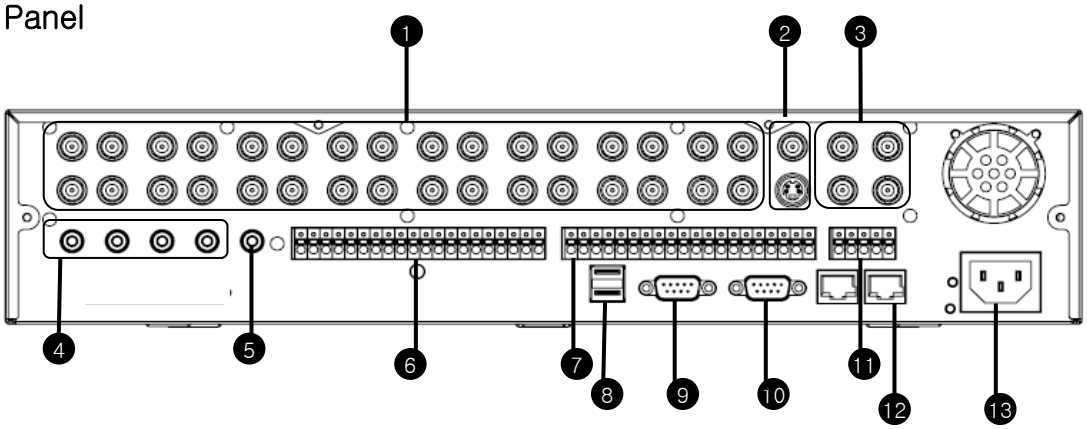
1. **DISPLAY** : Select Screen Division Mode or Rotation Mode.
2. **SEQ** : Select sequence screen mode.
3. **Menu** : Go to System Setup Menu
4. **PTZ/Focus** : Go to Camera PTZ Control
5. **Search** : Go to Search Mode for Searching Record Data
6. **Zoom** : zoom in

* FOCUS / IRIS button

1. **NEAR :** Set camera focus (Near & Far) or Reverse Play/Rewind.
2. **FAR :** Set camera focus far.
3. **CLOSE :** Close camera iris.
4. **OPEN :** Open camera iris.

2. Description (8ch/16ch)

2. Rear Panel



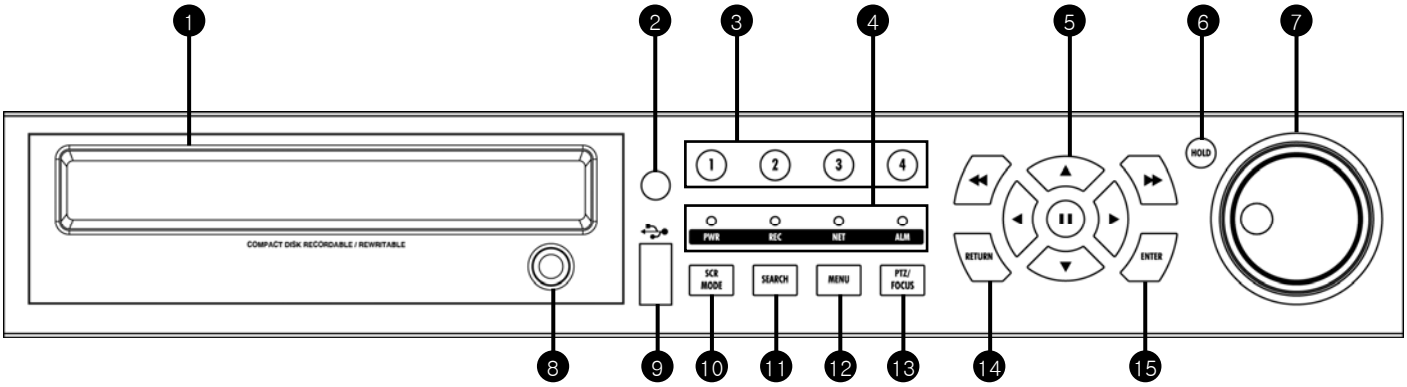
1. **Video IN / Loop :** BNC Video Input Port/ Loop Output (1-8/16)
2. **Monitor out :** BNC Main Monitor Output.
   SVHS : S-Video Main Monitor Output.
3. **Spot #1 ~ #4 :** 4x BNC Output to individually - Sequenced Spot Monitors
4. **Audio In :** 4 x RCA Audio Line Input Terminal
5. **Audio Out :** RCA Audio Line Out Terminal
6. **Alarm** : 8/16 x Input TTL Alarm/Sensor Input Terminal
7. **Relay** : 8/16 x Relay Output Terminal
8. **USB :** USB port for use the USB memory stick and USB HDD Backup.
9. **VGA OUT** : VGA Main Monitor Output (to a computer Monitor)
10. **RS-232C** : Serial Configuration Port for Program Debugging.
11. **RS-485** : Serial Interface for PTZ device connection and control
12. **Ethernet (TCP/IP)** : 10/ 100 Ethernet LAN/WAN connection (for Remote Access and configuration)
13. **POWER :** Power Cable connection.

Tip

• Do not power on the unit all cable connections have been made.

2. Description (4ch)

1. Front Panel



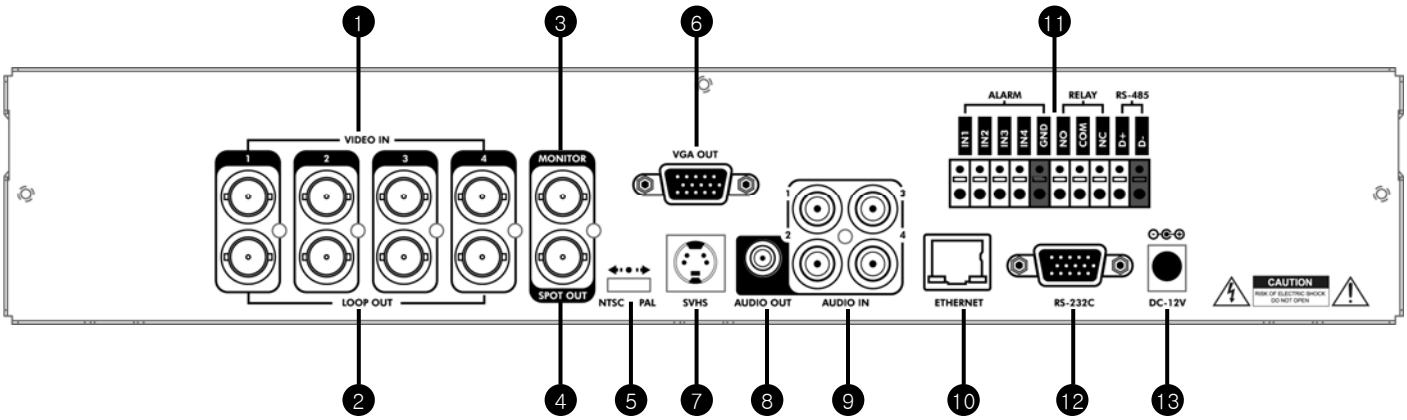
1. CD-RW : CD-RW Device for Backup.
2. Remote Controller Sensor Input.
3. Channel Selection Button : Select Channel or Input Password.
4. Led Indicator : Indicate Present System Status Information.
   (POWER: System On/Off , RECORD: Record On/Off ,
   NETWORK: Client Network Connection Status, ALARM: Alarm Sensor Detection Status)
5. Search Controller : Searching Recorded Data or Control Menu & PTZ/FOCUS.
6. HOLD : Hold Jog dial.
7. JOG dial
8. Eject : Eject CD
9. USB Port: USB port for use the USB memory stick and USB HDD Backup
10. SCR MODE : Select Screen Division Mode or Rotation Mode.
11. SEARCH : Go to Search Mode for Searching Data.
12. MENU : Go to System Menu.
13. PTZ/FOCUS : Go to Camera PTZ/FOCUS Control.
14. RETURN : Cancel Setup or Return to Previous Mode.
15. ENTER : Apply Changing Setup.

Tip

- Channel Selection Button is Prior to SCR Mode.
- When Remote Controller Sensor Input is Blocked by Something, it Cause Remote Controller do NOT Work Properly.
- When Press any Button, it Operate with Beep Sound.
- In Case of CD-RW, the Real Appearance will be Differ from the above Picture Depends on its Model.

2. Description (4ch)

2. Rear Panel



1. Video In : BNC Port for Connection of DVR & Camera. (4 Camera Connectable)
2. Loop Back : Output DVR Camera Video to Loop Back Port. (4 BNC Port)
3. Monitor Out : Output DVR Video to AV Monitor.
4. Spot Out : Output Spot-out Video to AV Monitor.
5. NTSC/PAL : Select NTSC or PAL Type.
6. VGA OUT : Output Video to a Computer Monitor by Connected VGA (Option)
7. SVHS : Output Video by Connected SVHS.
8. Audio Out : Output Audio Data.
9. Audio In : Audio Input Terminal Related with #1~4 Camera.
10. Ethernet (TCP/IP) : Port for Cross cable. (Possible to Remote Surveillance.)
11. Alarm/Relay/RS-485 : Connect Port for Sensor, Relay, & PTZ.
12. RS-232C : Connect Port for Program Debug.
13. DC Power Input : Power Supply by DC 12V Adaptor.

Tip

- When System Installation, Please Install under System Power Off Status.
- Please Use Specific Adaptor when Power Supply.

2. Description

3. Remote Controller

POWER
System ON/OFF
MENU : Open System Setup Menu
Channel Selection Buttons
RETURN
Cancel / Deselect Previous Screen
ENTER : Apply / Select /Go to Next Screen
Navigation Buttons : Used for Playback Control, Menu Navigation, and PTZ/Focus Control
SCR MODE SEARCH P/T/Z OSD
F1 SEQUENCE ZOOM F2
Change Display Mode
Search Menu
PTZ/IRIS Mode

- There are buttons on the controller that are unused, and their descriptions have been omitted.
- Every Button on the controller will function the same as its corresponding button on the Front Panel
- Remote Controller will only work when used within line-of-sight of the IR remote sensor on the DVR.

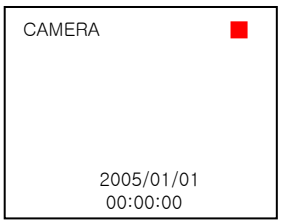
※ If there are many DVRs within line-of-sight of the controller, they will all respond to the controller.

3. Display

1. System Power ON

<Picture of Power On after Finishing Installation>

- Press power button to start system.
- After Checking Hard Disk, display mode is shown.
- Initial Screen View Mode is Quad Division Mode and Recording Mode.



- Each Channel Indicates Camera Name & Recording Status.
- Present Time & Date shown on Status Bar at a bottom of screen.

Tip

- Check System status LEDs

  Power : Indicates System (On/Off)
  Record : Indicates Recording (On/Off)
  Network : Indicates Network/LAN Client connection Status

3. Display

When this unit is connected with a remote client PC, a Network status icon will appear on the Status Bar

- This icon indicates the current network conditions
  - Green: Network is connected and stable.
  - Blue: Network is connected, but is unstable.
  - Red: Network is very unstable.

2. Screen View Selection

- Select One Channel using the channel selection buttons (1-8/16).
- Use the display button to change the multi-channel Display mode.
- Press channel selection button twice to view the channel on full screen.

3. Display Mode

- User can select from a variety of multi-screen display modes (1/4/6/8/9/13/16ch)
- The initial display mode is set to either 8ch or 16ch mode.

3. Display

4. PTZ/FOCUS Control

- Control Camera Movement of PTZ (Pan/Tilt/Zoom) devices.
- Press PTZ Button to switch into PTZ mode. (Status Bar is replaced by PTZ controls)

- Each PTZ function is manipulated by using a button on the Front Panel or on the Remote controller.
- Some of the notations on the PTZ menu are abbreviated. (P: Pan, T: Tilt, Z: Zoom, F: Focus, I: Iris)
- All of the functions on the PTZ menu are labeled along with the Front Panel/ Controller button that control it.

5. System Power Off

- Press power button to power system off.
- Input password and press enter to shutdown system.
- Don't disconnect AC power without completing shutdown.

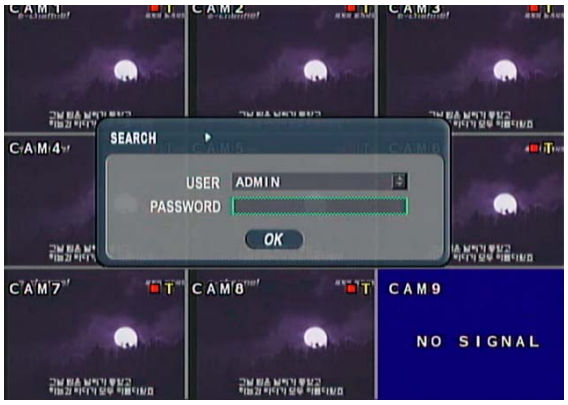
Tip

- System Log-On User Account Types are 'Administrator', 'Manager', 'User'

Administrator: Access All Function (Power On, Shutdown, Setup, Search, Backup)
Manager: System Power On, Live View, Search, Playback
User: System Power on and Live View

4. Search

⦿ Go to Search Mode



• Press search button and Log-In.
(as administrator or manager)

• Use directional keys to navigate search menu.

• To open/ advance each sub menu, Press enter

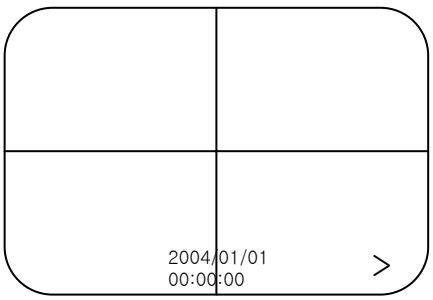
• To return to a previous menu screen, Press return.
(Repeatedly pressing return will exit out of all menus.)

1. Search by Time

- Search by a recorded Date/ Time

① Move cursor to select the date on the calendar.
② Press enter to open selected date.
③ Recorded timeline will appear.
④ Move cursor to the specific time, and press enter.
(The timeline is divided into 15 minutes segments)
⑤ Menu will be hidden from view, and playback will start playing from the selected date/ time forward.

• The recorded date & time is shown on the status bar.
• The current playback mode (Play, Pause, FF, REW) is indicated with on icon on the bottom-right of the screen.
• The channel selection and display buttons will work the same as in live view mode, setup, PTZ and archiving buttons don't work in the playback mode.



4. Search

• Video Playback Controls

① : Basic playback mode (Normal speed (1X) forward playing)

② : Normal speed (1x) backward playing

③ : Pause playback (Enable the JOG wheel)

④ : Fast forward (2x ~ 64x speed)

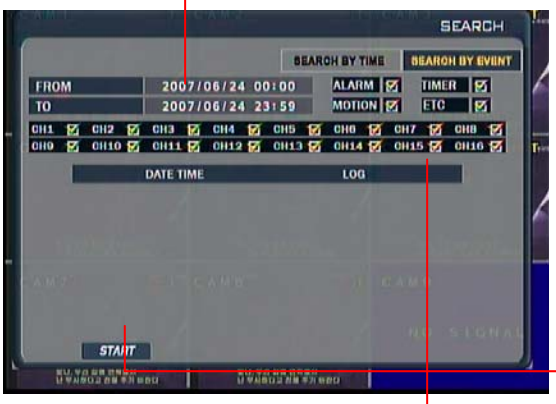
⑤ : Fast rewind (2x ~ 64x speed)

⑥ : Variable FF/REW Speed, same as # ④ ⑤

※ Use JOG or press normal forward/backward button while paused, to advance previous/next frame.

2. Search by Event

– Search Video with based on alarm/sensor events, motion recording events and system events



Select start date & end date of the event search.

Alarm : Search alarm/sensor events within the selected date/time period.

Motion : Search for motion recording events within the selected period

Timer : Search for schedule change or recording setup change events with the selected period.

System : Search for power on/off events or other system events within the selected period

Event search results display in the lower window

Channel selection : choose the channels to search

Tip

• Alarm, Motion, System can be selected at the same time by checking the checkbox next to each of the desired options (V)–(ENTER)

• To change Date/ Time selection, Press enter and use the directional keys to Increase or decrease the value. When desired value is set, Press enter.

5. Setup

⦿ Go to setup

① Press setup button.
② Unit will ask for login/password Entry.
③ Input password using by channel selection button.
④ After login, select a submenu and press enter.

Tip

- The Initial password for the Admin account is 1234.
- On-Screen display will show the password digit as : ****
- To set up or edit user accounts, or Login/ Password information, go to General ->System -> User management submenu.
- You may only enter into the setup menu from live view mode.

⦿ Go to 'General' to setup menu

- Choose " General" to enter into the setup menu.

5. Setup

1.Display

– Allows configuration of display properties

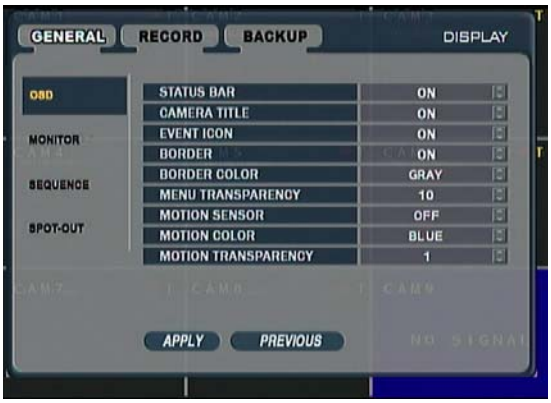
• Live view display options are edited within this submenu.

• Navigate menu by using directional buttons

• ENTER Select the desired menu category and press “ Enter”

• RETURN Return to previous menu (or live view mode)

1-1. OSD

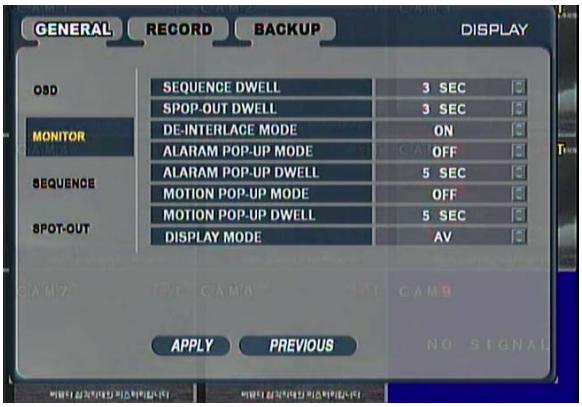


Tip • When have finished changing settings, Press APPLY to confirm the changes.

- Status Bar : Recording mode icon (on/off), (Recording: Red, Pre-recording : Green)
- Camera Title: Show/Hide camera name (on/off).
- Event Icon: Show/Hide event icon (on/off).
- Border : Show/Hide border Grid (on/off) in multi-channel mode.
- Border Color : Select color of border Grid. (White, Blue, Red, Yellow, Green, Gray)
- Menu transparency : Setup menu transparency.
- Motion Sensor : Toggle Motion Detection (Off/Active / Inactive)
  - Active : Display motion sensor of motion detection area.
  - Inactive : Display motion sensor except motion detection area.
  - Off : No display of motion sensor.
- Motion sensor color : Setup motion sensor color.
- Motion transparency : Setup motion transparency.

5. Setup

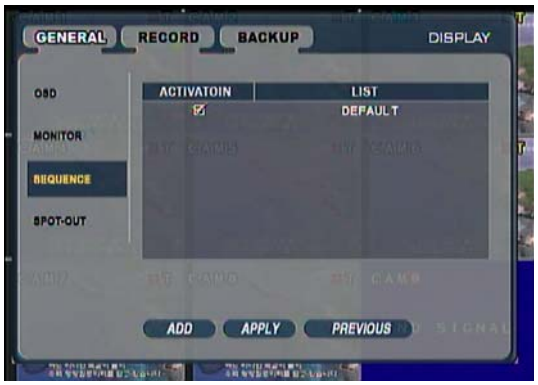
1-2. MONITOR



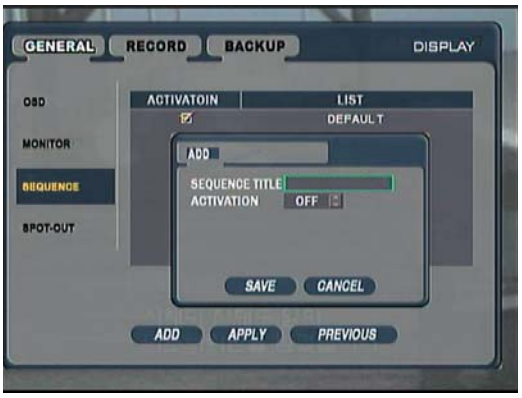
- Sequence dwell : Set up channel sequence cycle time (1-60 sec).
- Spot-out dwell : Setup spot-out time cycle(1~60 sec.).
- De-interlace mode : Remove interlacing in high resolution & low frame.
  * This applies only D1 resolution. (704X480)
- Alarm pop-up mode: alarm channel will go full screen on activation.
- Alarm pop-up dwell: alarm pop-up time (1~60sec.)
- Motion pop-up mode : motion channel will go full screen on activation.
- Motion pop-up dwell : motion pop-up time(1~60sec.)
- Display mode : select display mode. (VGA/AV)

5. Setup

1-3. SEQUENCE

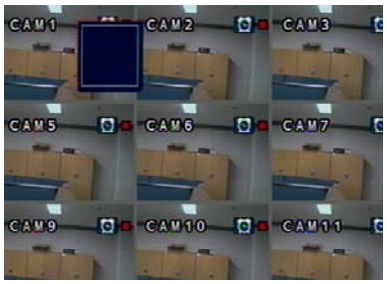


- Activation : Setup activation on/off.
- List : Sequence title.
- Created by user who programmed the sequence.



- Choose add to add sequence.
- Input the sequence title.
- Choose activation. (on/off)
- Save and exit

* How to setup Sequence function



① Press Enter, then red border line will disappear. Setup mode will be activated.

② Select display mode type for sequence via navigation key.

③ Input channel No. for sequence function via virtual keyboard.

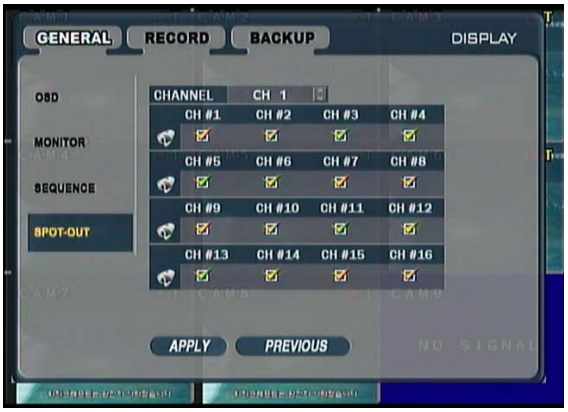
④ User will add up new sequence type as different type

⑤ Press return button after finishing setup, Finally, select Save & Exit / Exit / Cancel

⑥ User can check sequence function by pressing sequence button of key pad.

5. Setup

1-4. SPOT OUT



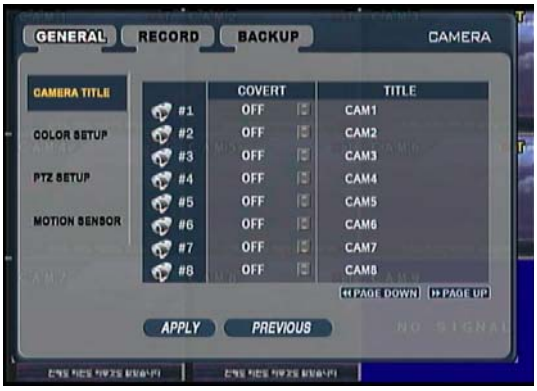
- Channel : Select spot out channel (4CH=> 1 SPOT, 8CH=> 2 SPOT, 16CH=> 4 SPOT)
- Select camera channel for spot out
- User can see the selected channel via AV monitor

5. Setup

2. Camera

– Allow setup of camera Parameters and Options

2-1. Camera Title

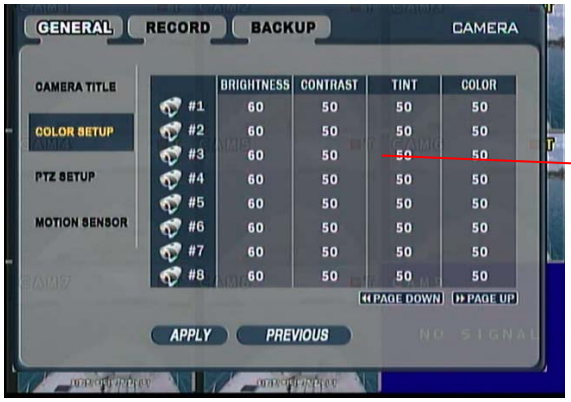


• Covert : Setup channel as Covert channel (on/off)
=> What's Covert?
When a channel is set to covert, it will be hidden Live view and Playback, but video will still be recorded.

• Title : User will input camera name by using virtual key board.

• Use the enter button to click the keyboard.

2-2. Color Setup



• Adjust the brightness, contrast, color and tint of each channel
• All values range from 0–100 (all values are 50 by default)
• User need to set these values on each channel individually.

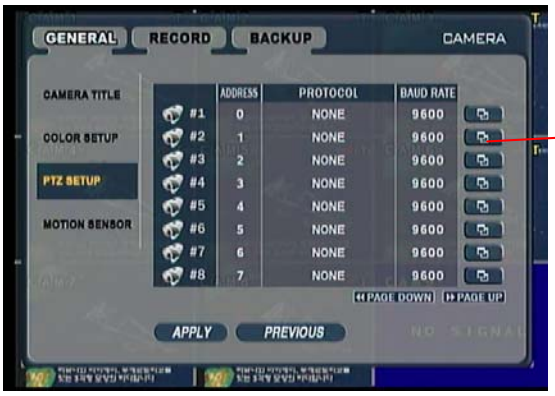
5. Setup

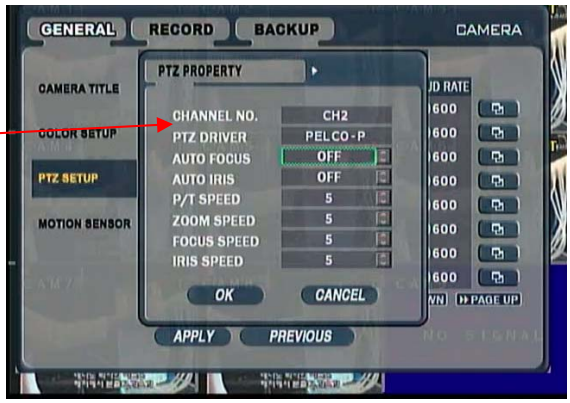
Tip

※ How to use Virtual Keyboard

- Input the directional buttons to select keys on the virtual keyboard.
- Press enter to press a key on the keyboard.
- Press the button for shift for CAPS and punctuation.

2-3. PTZ Setup





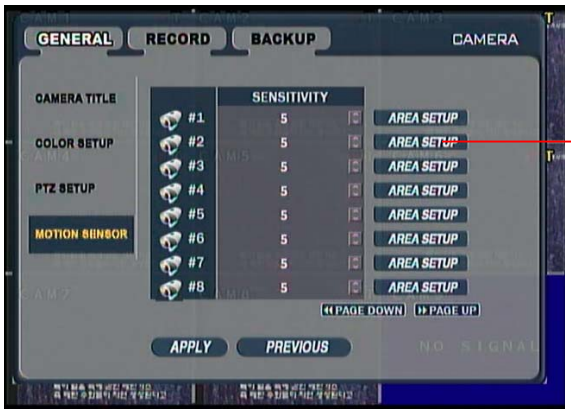
- Address : Select the PTZ Camera Address (0-255).
- PTZ Protocol : Select type of PTZ Camera.
- Baud Rate : Setup PTZ Communication Speed.
  (2400, 4800, 9600,19200, 38400 BPS)

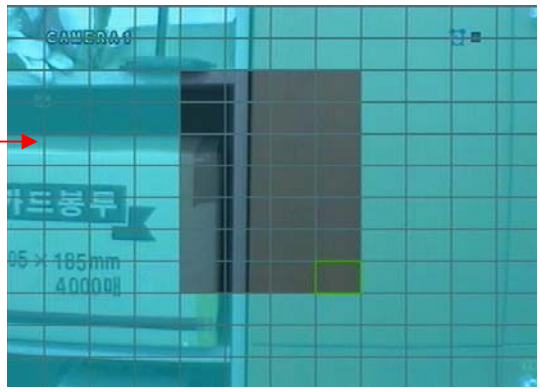
- Enter button and setup the PTZ details.

※PTZ Supplied Protocol : Samsung(MRX-1000), Samsung(SCC641),Honeywell(SD1)
Honeywell((GMC),Lilin(Fastdome), Fastrax(II), GC(655N),
D-MAX, Sunin DSC-230, Scan Dome- II , Vicon,Philips8560-700
Sensormatic,Panasonic(WV-CS850), Panasonic(WV-CSR604),VRX-2101
Kalatel(KTD-312), PELCO-D, PELCO-P,Dynacolor(D7722)

5. Setup

2-4. Motion Detection

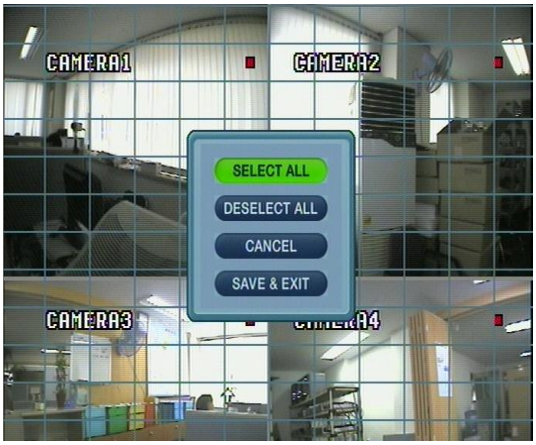




- Adjust the Motion Sensitivity Level (1-10)
- Click area setup to define motion-sensitive area.
- Area is selected on a 16 x 16 target grid. (The entire viewing area is selected on all channels by default)

- Move cursor over grid using the Directional keys.
- Press Enter, and then use the Directional Keys to select an area of targets on the grid.
- Press Enter aging to mark the selected area.

(An area that is already marked will be unmarked)



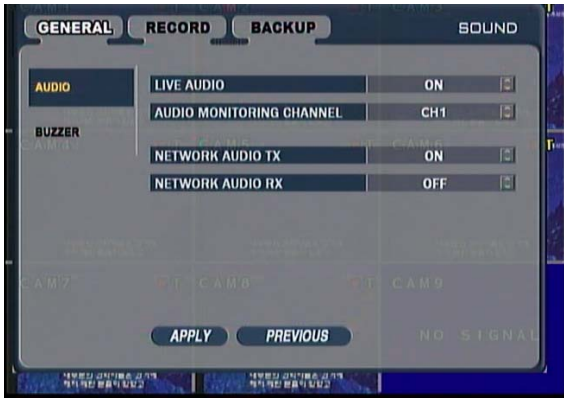
- Press Return key to step back out of Area Setup
- Select All : Select entire area for Motion sensitivity.
- Deselect All : De-Select entire area
- Cancel : Cancel changes to setup & exit.
- Save & Exit : Save the changes & Exit.

5. Setup

3. Sound

3-1. Audio

- Allows for configuration of audio parameters and options



• Live Audio : Audio output to audio out terminal (ON/OFF).
(Live audio output is from audio in terminal)

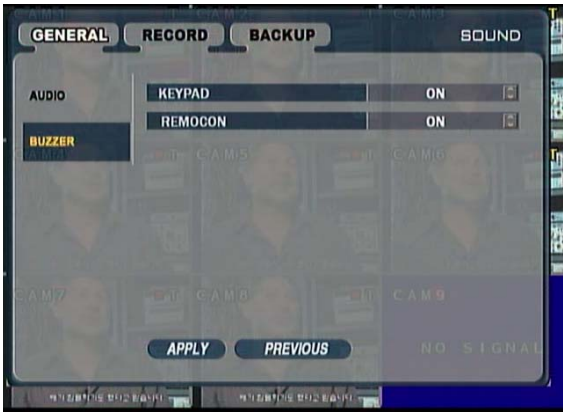
• Audio Monitoring Channel: Select channel for audio output.

• Network Audio TX: Allow transmission of live audio over network

• Network Audio RX: Allow reception of audio talkback from PC.

3-2. Buzzer

- System Buzzer Setup



• Keypad : Buzzer will chirp when button is pressed on Front Panel.

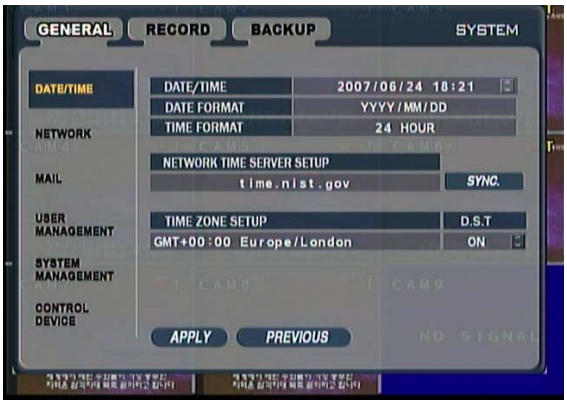
• Remote con : Buzzer will chirp when button is pressed on Controller.

5. Setup

4. System

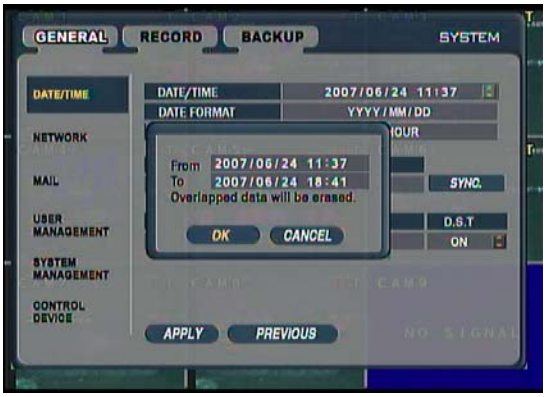
- Basic System environment Setup

4-1. Date/Time



※ User should set the proper Time zone for your geographic location before adjusting the other settings.

- Date time : Set the present date & time.
- Date Format : Select the style of date display. (Ex: 2005-00-00, 2005/00/00)
- Time Format : Setup time display as either 12 Hour or 24 Hour base.
- Network time server : Setup on NTP time server, to synchronize date/Time with other devices on the network
- D.S.T: Daylight Saving Function (On/Off).



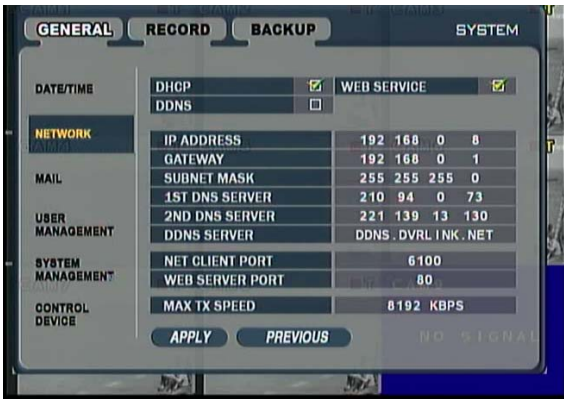
- Time Zone Setup : Choose the time zone (Relative to GMT standard).

Tip

※ How to perform Date/Time setup via network (NTP) time server ;
1. Setup Time zone for your geographic location.
2. Setup the Network Time server information and press the " Sync" button.
3. If correct time is not retrieved automatically, set the date/time manually.
4. If the correct date/time is not set, you may experience problems when using Date/Time search.

5. Setup

4-2. Network



- IP Address : Input the unit IP Address.
- Gateway : Input the IP address of Internet-connected Router
- Subnet Mask : Input the Subnet Mask IP.
- DNS Server: Input 1ST AND 2ND DNS Server IP Addresses.
- DDNS Server: Input DDNS server IP address
- Net Client Port : Input net client Service Port # (Default:6100)
- Web Server Port : Input the Web server port # (Default: 80)
- Max TX Speed : Setup Max Network TX Speed. (56k – 8mbbs)

** After making changes to the Network setup, click Apply.
(The system will prompt you to reboot in order to save change.)

• DHCP (Dynamic Host Configuration Protocol) : IP address is set on the DVR automatically by DHCP server/router.

1. Set DHCP setting (On/Off)
2. DHCP Off : User will input IP address manually.
3. DHCP On : IP address will be assigned automatically. After DHCP is set to On, the system will reboot.
4. After the system has restarted, you can view the new IP address from this menu or in ' System information'

• DDNS (Dynamic DNS): This is used with a Dynamic IP address, which may be changed by the ISP at any time.

※ With DDNS, there is no need to enter the IP address on every connection, A name server address is used instead of.

1. Setup DHCP to on or manually input the unit IP address.
2. Setup DDNS to On, set the DDNS properties (user name, password, and domain name) and reboot the system.
3. To access the DVR using the name server address, the format for the address is :
   http:// [user name].[domain]
   ([Example: http:// mydvr.dyndns.org) (user name: mydvr.domain: dyndns.org)

4. User will need to input all of the correct DDNS information into the Network setup in order for the DVR to be able to update its new IP address to the DDNS server whenever a change occurs.
5. If user is using a router in your network configuration, it is the router which must be setup for DDNS, not the DVR.

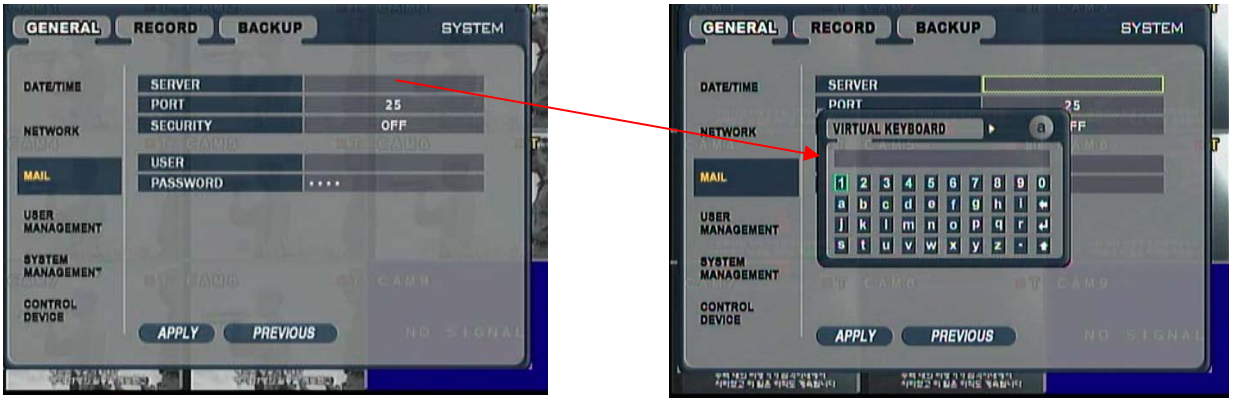
Tip

. ※ About Network Configuration

1. If your DVR is connected to the Internet via a Router, you must use Port Forwarding in order for users outside of your Local Area Network (LAN) to access the DVR remotely over the Internet.
2. Forward the Web and Client Service Port #'s to the Private (LAN) IP Address of the DVR.
3. The Router and DVR must have IP Addresses that are located on the same network subnet.
   Example: Router IP: 192.168.0.1 DVR IP: 192.168.0.x (x is any number from 2 ~ 254)
4. Users connect to the DVR over the Internet using the Router's Public (WAN) IP Address.
5. If the Port Forwarding settings are correct in the Router, it will forward all data to/from the DVR.
6. If the DVR is the only device using your Internet Connection, it will be assigned the Public (WAN) IP Address that is given to you by your Internet Service Provider (ISP).

5. Setup

4-3. Mail

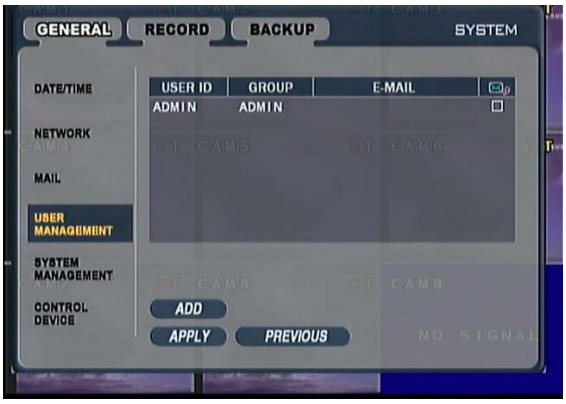


These settings allow the DVR to send outgoing E-mail notifications to the list of recipients listed within the DVR

- Server: Setup the outgoing Mail server address.
- Input the server address using the Virtual Keyboard.
- Port: Mail server port number (default is port 25).
- Security: For a mail server the requires outgoing SMTP Authorization (On/Off).
- User & password: Input the username and password (if required for outgoing SMTP Authorization).

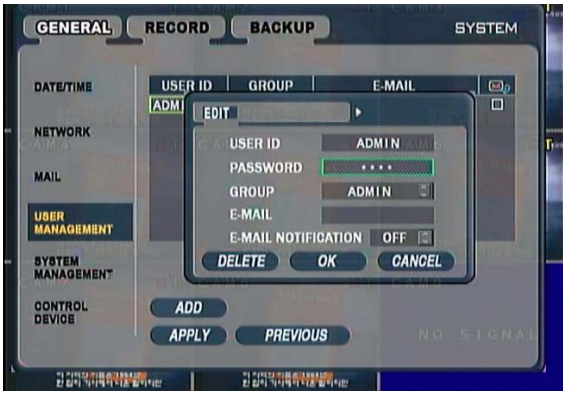
5. Setup

4-4. User Management

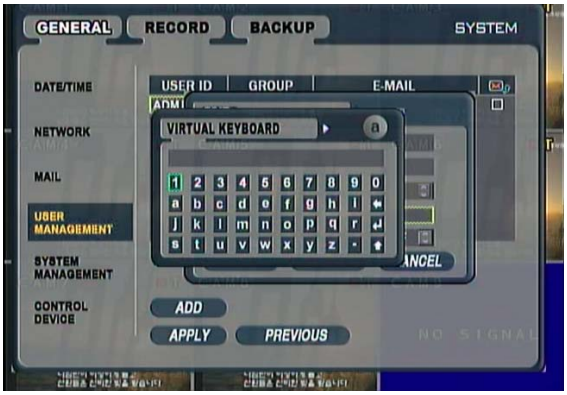


DVR User account Setup

- There are 3 groups of User Account types
  - Administrator, Manager, and User.
- A Total 7 users can be established for each account type.



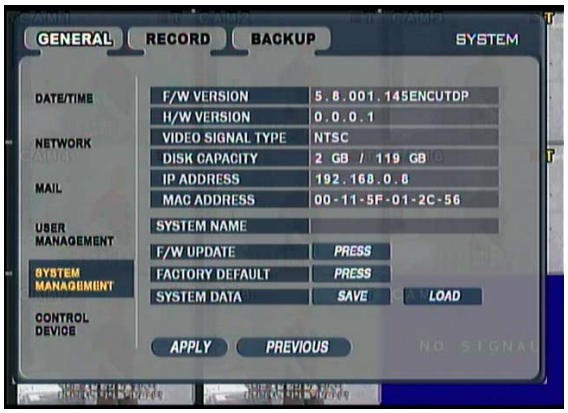
- Input the new User ID,
- Input a password, using channel selection buttons (0-9)
- Choose the Group which the user belongs to.
- Input the E-mail Address for the new user.
- Turn E-mail notification (on/off)



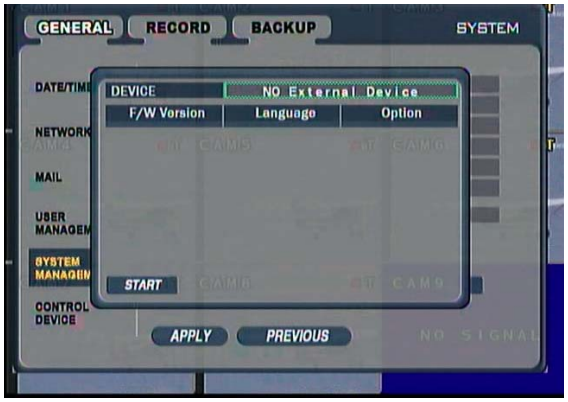
- Input User ID and E-mail address using the Virtual Keyboard.

5. Setup

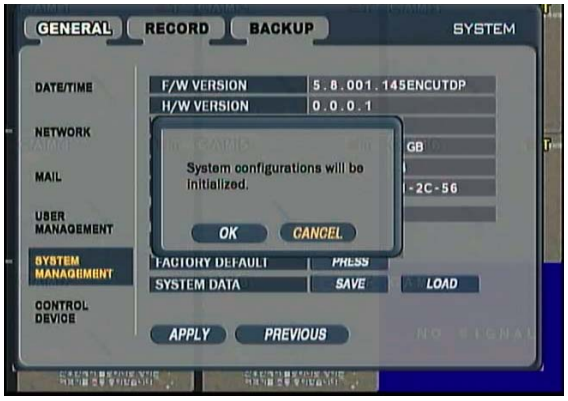
4-5. System Management



- F/W version: DVR Server firmware version.
- H/W version : DVR Hardware version.
- Video signal type: NTSC or PAL.
- Disk capacity: Used HDD capacity/ total HDD capacity.
- IP address: Current IP address of the DVR.
- MAC address: Fixed MAC address of the DVR.



- F/W update
  - User can do F/W update by USB (or CD) device.
  - Press ‘Press’
  - Select F/W from the list.
  - Press ‘START’



- Factory default
  - User can initialize all setup but recording data is not erased.
  - Press ‘Press’ then warning message appear.
  - Press ‘OK’, then all setup initialized.

- System data
  - User can save/load settings.
  - Press ‘SAVE’ to save current setup without message.
  - Press ‘LOAD’ to load saved setup from USB device without message.

5. Setup

4-6. Control device

- System ID : Select system ID. (1~254)
- Protocol : Select protocol.
- Baud rate : Setup baud rate.

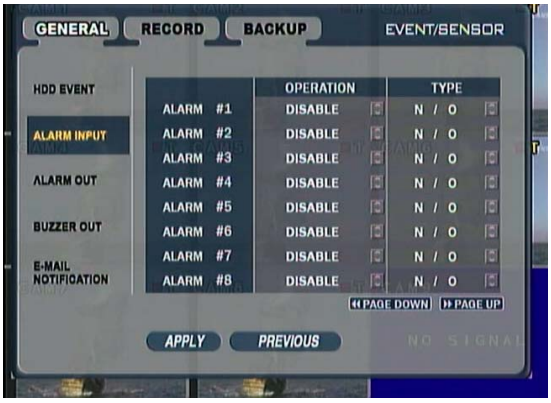
5. Event/Sensor

5-1. HDD Event

- Drive: All HDDs are listed by IDE channel Number.
- Smart alarm: Set Temperature Alarm (on/off)
- Check interval: Time between smart alarm checks.

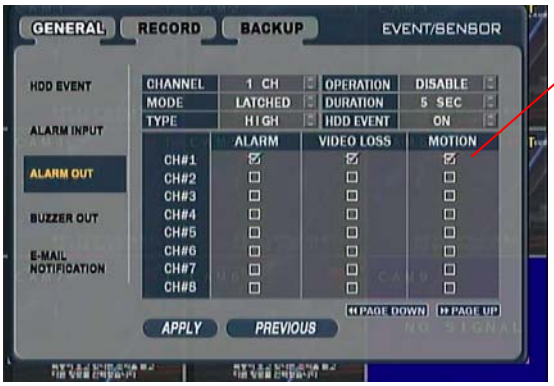
5. Setup

5-2. Alarm Input



- Operation: Setup Alarm Sensor Connection Status. (enable/disable)
- Type : Setup Alarm Sensor N/Open, N/Close Type.
- Normal Open : Open status in normal times, when alarm out happen changed to close status .
- Normal Close : Close status in normal times, when alarm out happen changed to open status .
- Page down/up : Move display page.

5-3. Alarm Output



※ Setup each channel when alarm, video loss, motion happened.

- Channel : Select Channel.
- Mode: Setup Reacted Relay as Latched/Transparent Mode.
- Type: Setup Relay Type N/Open or N/Close.
- Operation: Setup Relay Connect with Alarm Sensor.
- Duration: Setup Reacted Relay Time. (5sec~5min or Until key-in)
- HDD Event: Alarm On/Off when HDD has the problem.
- Page down/up : Move display page.

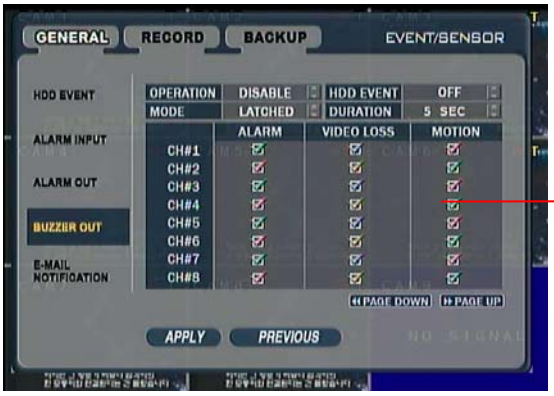
Tip

- Latched/Transparent

  Latched – When sensor alarm activated, relay reacted in setup duration.
  Transparent – Relay reacted temporary during sensor alarm activate.

5. Setup

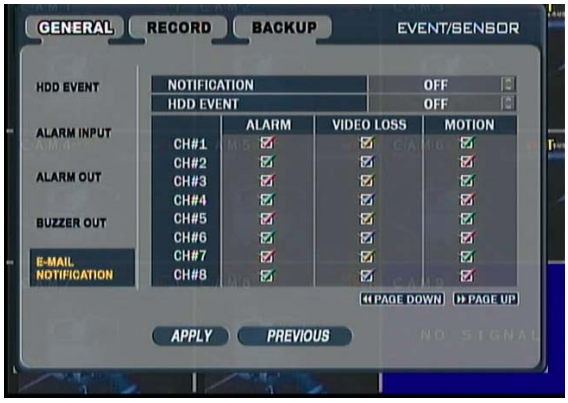
5-4. Buzzer out



- Operation: Buzzer Out (Enable/Disable).
- Mode: Setup in Latched/Transparent Mode (same as Alarm out).
- HDD Event: Turn buzzer (on/off) when HDD event occurs.
- Duration: Buzzer time (5sec~5min or manual reset on DVR)
- Setup each channel to trigger buzzer on alarm activation, video loss, and/or motion event.

5. Setup

5-5. E-mail Notification



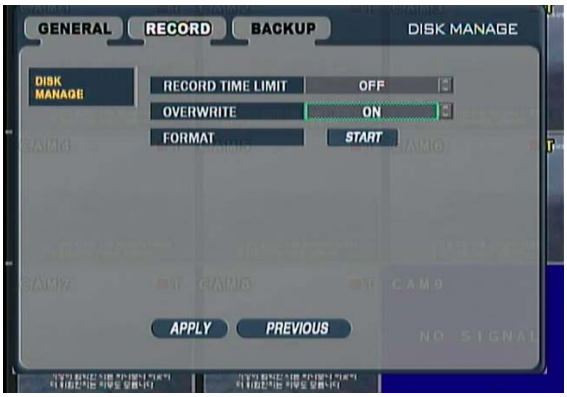
• E-Mail Notification will send an e-mail to a list of recipients, based on alarm, video loss, motion, or HDD events.

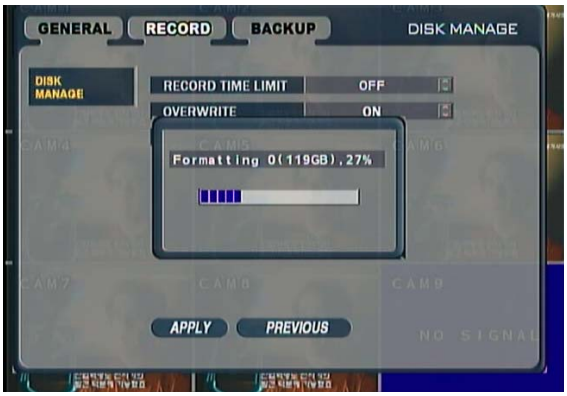
• Check or uncheck each type of condition that you want to trigger an E-mail notification, on each channel.

• The list of recipients is configured within the System → User Management menu.

• Make sure that all of the outgoing mail server settings are correct, within the system → Mail menu, in order to ensure delivery.

6. Disk Management





• Disk Overwrite : (ON/OFF) overwrite permission (when HDD is full)

ON: Overwrite HDD, starting with the oldest data first (also known as FIFO – first in, first out)
OFF: When HDD is full, recording will be halted and the system buzzer will activate

• Format : (Click START to Format HDD). All Recorded data will be deleted from the HDD.

[NOTE: Any newly-installed HDDs will be detected during the Power-On Self Test (POST), and the system will prompt you to Format the new HDD before entering into the DVR system GUI. You can't format new HDDs from the disk management menu, until they have been formatted first during the startup sequence.]

5. Setup

⦿ Go to Record Menu

• Press the setup button and login as an Administrator.
• Choose " Record Menu"

1. Recording Operations

• Schedule Mode: Choose 'DAILY' or 'WEEKLY'.

- Daily : The recording schedule that you configure will be used for every day of the week.
- Weekly: You must configure the recording schedule for each day of the week, individually.

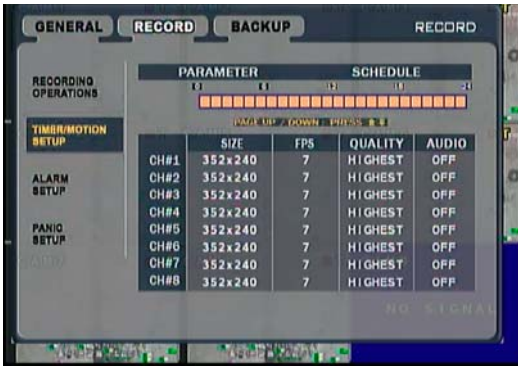
• Pre-Event recording time : (1 ~ 5 seconds) data will be recorded to the HDD from 1 to 5 seconds before an event is detected.

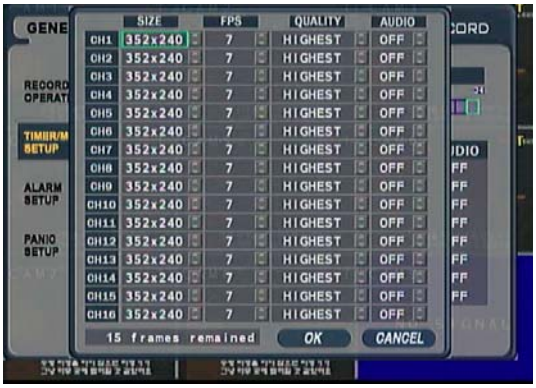
• Post-Event Recording Time : (5 sec ~ 3 min) Data will be recorded to the HDD from 5 seconds to 3 minutes after an event has ended.

5. Setup

2. Continuous / Motion Record Schedule

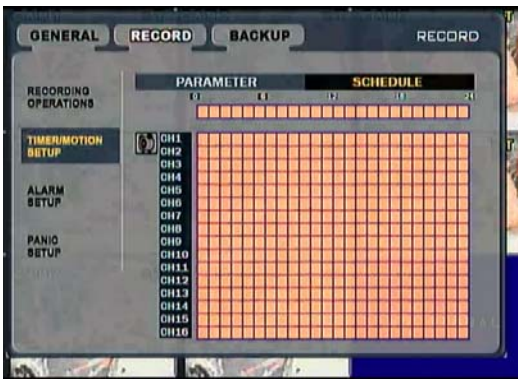
2-1. Parameter

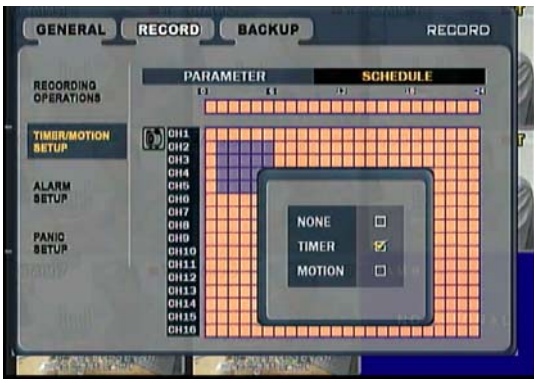




- Select a block of time from the 0-24hr Timeline (you may select multiple blocks).
- Press ENTER again to set up the Resolution, FPS, Quality, and Audio on each channel.

2-2. Schedule





- Continuous recording Icon

- Motion recording Icon

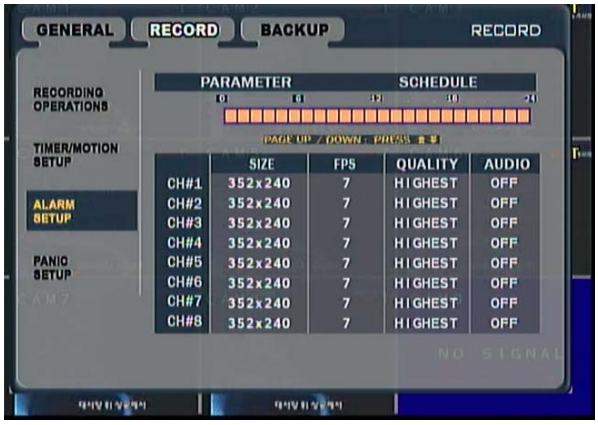
- Select an area (channel / time of day) on the schedule grid and press enter to adjust its properties.
- Set area as 'Timer' (Continuous), 'Motion', or None.

- If 'WEEKLY' recording is enabled, you must set up each day of the week individually.
- If 'DAILY' recording is enabled, you will set up one schedule for every day of the week.

5. Setup

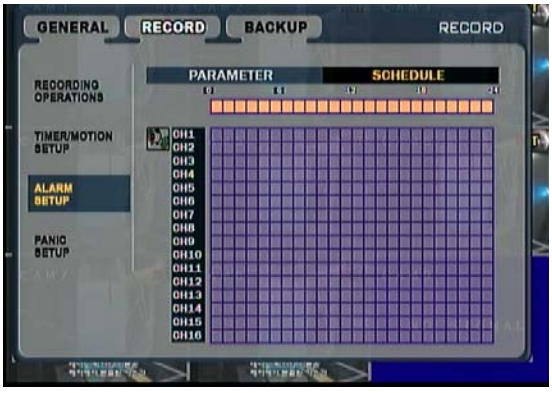
3. Alarm Recording Schedule

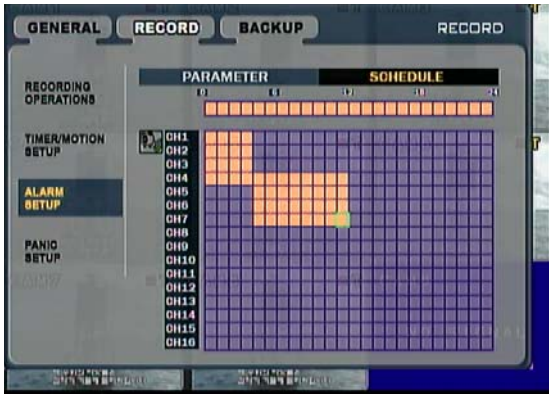
3-1. Parameter



- Select a block of time from the 0-24hr timeline (you may select multiple blocks).
- Press ENTER again to set up the resolution, FPS, quality, and audio on each channel.

3-2. Schedule





- Alarm recording icon

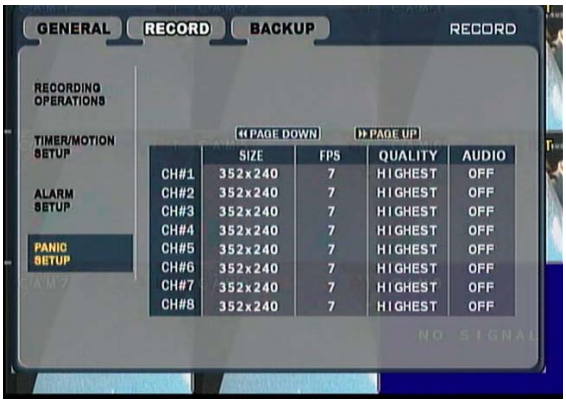
- Select an area (channel / time of day) on the schedule.
- Press enter to select (or deselect) alarm recording.

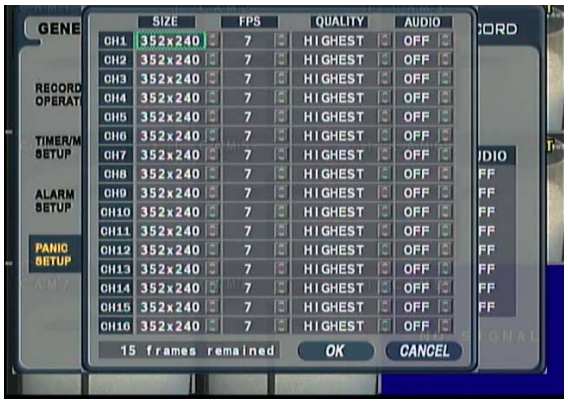
- If 'WEEKLY' recording is enabled, you must set up each day of the week individually.

- If 'DAILY' recording is enabled, you will set up one schedule for every day of the week.

5. Setup

4. Panic Setup

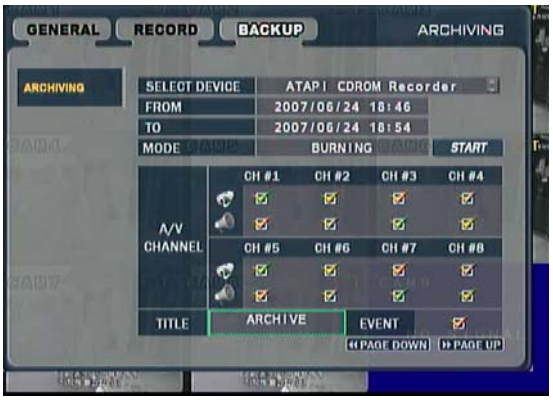




- To setup each channel, press enter.
- Setup each channel. (Size, FPS, Quality, Audio)
- By using panic button of front panel can record urgently as setup.

5. Setup

⦿ Go to Archiving



1. CD-RW and USB Back Up

- Device : Indicate CD-RW model and USB memory model automatically.
  If you use the CD-RW and USB memory (or USB HDD) together,
  it can choose the CD-RW and USB by direction key.
- From : Select start backup time.
- To : Select end backup time.
- Mode : Select backup mode. (Burning / Erasing & Burning)
- A/V channel : Select channel, video, audio for backup.
- Title : Change the title of backup by virtual keyboard.
- Event : Select attach event text file in backup.
- Start : Start backup.

Tip

- Compatible CD Writer Models are LG(GCE-8526B,GCE-8527B), SAMSUNG(SW-252F, TS-H292A, SH-522C),ASUS(CRW-5232AS),GIGABYTE(GO-R5232B)
- Compatible USB memory stick Models are LG(Royal,mobile,mirror), IMATION(iflash),Memorive PRO+ and Compatible USB HDD is CUTIE(FHD-254).
- Inside of Backup CD,USB Including Necessary Codec for Playback (IMM4 Install File).
- In case of RW Possible CD, Please Delete Previous Data on PC for Recording Again.

* HDD Installation

① Jumper Setup as Master or Slave

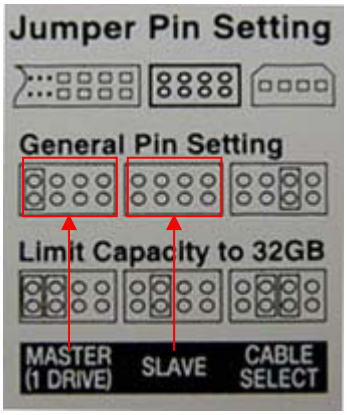
• Jumper Setup as master or Slave, Following the Direction of Surface of Hard Disk.

• Jumper Located at Hard Disk Data Cable or Rear Side of Hard Disk.

• If one hard disk Installation, setup as Master
If two hard disk Installation, second one setup as slave.

‼ When hard disk add or exchange, Must system off properly (System off by power button). If not, it's a cause of fatal hard disk error.‼

※ Example of Samsung HDD Jumper Setup



• Refer to general pin setting in jumper pin setting on HDD surface.
• When one HDD install, setup pin as master and connect pin at the left end of jumper.
• When two HDD Install or additional Install, first one setup as master and the other is for slave. slave setup has no pin.
• When more than two HDD install, setup as master or slave to connect one IDE cable at the same method of above.

!!Please use hard disk which possible to supply higher than UDMA66.!!

② IDE Cable Connection to Main Board

• Confirm the IDE cable inside of product

• Among the three connector, Indicated blue color connector must be connected with main board. other connectors connected with HDD

• IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with a dry cloth.

7) Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.

8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.

9) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other.
A grounding type plug has two blades and a third grounding prong.
The wide blade or the third prong is provided for your safety.
When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11) Only use the attachments/accessories specified by the manufacturer.

12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15) This equipment is indoor use and all the communication wirings are limited to inside of the building.